

19980702.qrp v01_n140.qrs.980702

Date: Thu, 2 Jul 1998 19:03:16 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1140

QRP-L Digest 1140

Topics covered in this issue include:

- 1) [14154] RE: 30M openings
by nq2rp@juno.com (B/BAMS Club Station)
- 2) [14155] Argosy Mixer info
by K2UD@aol.com
- 3) [14156] Re: 30M openings
by Roger Hightower <n7kt@earthlink.net>
- 4) [14157] Inverted V vs. Dipole
by "Ron Polityka" <wb3aal@talon.net>
- 5) [14158] Re: Inverted V vs. Dipole
by "George T. Baker" <w5yr@swbell.net>
- 6) [14159] Re: Inverted V vs. Dipole
by Vic Rosenthal <rakefet@rakefet.com>
- 7) [14160] [Fwd: Inverted V vs. Dipole]
by "George T. Baker" <w5yr@swbell.net>
- 8) [14161] Re: Inverted V vs. Dipole
by Monte Stark <ku7y@dri.edu>
- 9) [14162] Re: Freq-Mite in SW-40+
by penzo@juno.com (Michael A Penzo)
- 10) [14163] Inverted V vs. Dipole
by "Ron Polityka" <wb3aal@talon.net>
- 11) [14164] Re: 12 Volt QRP Power Source
by W7LS <w7ls@blarg.net>
- 12) [14165] Re: 30M openings
by Steve Yates <aa5tb@swbell.net>
- 13) [14166]
by Wayne Alexander <walexander@wwn.net>
- 14) [14167] Re: Inverted V vs. Dipole
by "Ed Hare, W1RFI" <ehare@arrl.org>
- 15) [14168] Help - Morse Key
by art marshall <w1fji@vistech.net>
- 16) [14169] Batteries
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 17) [14170] Item for sale
by Wayne Alexander <walexander@wwn.net>
- 18) [14171] MI-QRP July 4th CW Sprint
by Buck Switzer <n8cqa@tir.com>
- 19) [14172] Freq Mite

- by Jeff Johnson <jeff@dcsoftware.com>
- 20) [14173] Reducing Argosy "Popping" on CW
by k7sz@juno.com (Rick Arland)
- 21) [14174] DIPOLE, INVERTED-V, OR...
by mfitz@uswest.net
- 22) [14175] Neophyte?????
by k7sz@juno.com (Rick Arland)
- 23) [14176] Back from camp, caffeine, chickens & biktam trabilman
by nilsbull@juno.com (Nils R Young)
- 24) [14177] Freq-Mite in SW-40+
by "Tony Fishpool" <g4wif@btinternet.com>
- 25) [14178] Pinout for 2N7000
by astone@erols.com
- 26) [14179] 10 Mhz DX
by n4so@juno.com (charles k brown)
- 27) [14180] Re: FD 98 de N6WG
by "Roger A. McCarty" <rmccarty@earthlink.net>
- 28) [14181] WHO HAD SOME MFJ RIGS FOR SALE??
by RangerSF5@aol.com
- 29) [14182] Re: Freq-Mite in SW-40+
by John Sulllivan <kg0mz@southwind.net>
- 30) [14183] "72" mixer injection inquiry
by Jack Parker <Pparker@greatbasin.net>
- 31) [14184] Electronic Goldmine/Goldmine Electronics
by n4so@juno.com (charles k brown)
- 32) [14185] Re: Help - Morse Key
by Ab7wy@aol.com
- 33) [14186] wire/rope half square updated
by jdenison@morelr.com (JOEL DENISON)
- 34) [14187] CB/QRP 4th of July Special
by Conrad <radman@best.com>
- 35) [14188] British military key FS/trade
by W7LS <w7ls@blarg.net>
- 36) [14189] Benchtop Power Supply Special
by Conrad <radman@best.com>
- 37) [14190] Re: Neophyte?????
by Tom Bowman <tbowman@nbn.net>
- 38) [14191] WTB:PS for Corsair I
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 39) [14192] FS - 20 meter SSB QRP
by k5yu@juno.com (harvey n mitchell)
- 40) [14193] Re: Inverteed V vs. Dipole
by Zack Lau <zlau@arrl.org>
- 41) [14194] Re: SMiTe RIT fix/mod, with Radio Shack FET
by Gary Oneil <n3go@us.ibm.com>
- 42) [14195] RE: Fet in place of D2 in PIXIE MOD
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 43) [14196] Questions...?

by John Bohnert <johnb@elmhurst.edu>
44) [14197] Dipole as a reference antenna
by applitech@mcg.net (Claton Cadmus)
45) [14198] Re: Dipole as a reference antenna
by John Evans - N0HJ <jae@codenet.net>
46) [14199] Re: Questions...?
by Bill Jones <kd7s@psnw.com>
47) [14200] Re: Dipole as a reference antenna
by Jack Parker <Pparker@greatbasin.net>
48) [14201] Where get a PIXIE?
by Mike - W0TMW <crucis@sky.net>
49) [14202] Re: Dipole as a reference antenna
by "Ed Hare, W1RFI" <ehare@arrl.org>
50) [14203] Re: Dipole as a reference antenna
by John Evans - N0HJ <jae@codenet.net>
51) [14204] Re: Dipole as a reference antenna
by Roger Hightower <n7kt@earthlink.net>
52) [14205] Re: Dipole as a reference antenna
by Chris Trask <ctrask@primenet.com>
53) [14206] Mea Culpa: Feedback (was Re: Dipole as a reference antenna)
by "Ed Hare, W1RFI" <ehare@arrl.org>
54) [14207] Re: Dipole as a reference antenna
by applitech@mcg.net (Claton Cadmus)
55) [14208] IC706/II QRP/CW performance
by "Allan G. Taylor" <ataylor@heracles.llnl.gov>
56) [14209] Re: CB/QRP 4th of July Special
by "George T. Baker" <w5yr@swbell.net>
57) [14210] Re: IC706/II QRP/CW performance
by Roger Hightower <n7kt@earthlink.net>
58) [14211] Move 20mtr SST to 15mtr: component values
by marion@montana.com
59) [14212] Gear For Sale
by Bob Hightower <ki7mn@dancris.com>
60) [14213] Re: 00-LA-LA
by w4pj@w4bkx.ampr.org
61) [14214] Re: 30 meter openings
by w4pj@w4bkx.ampr.org
62) [14215] Re: SG2020&QRP++ on FD
by Ed Tanton <n4xy@att.net>
63) [14216] SSB on 30M
by kh6b@juno.com (Dean W Manley)
64) [14217] alinco dx-77t
by dave_epps@juno.com
65) [14218] Need source for ferrites: Amidon, etc.
by Bill Cotter <bcotter@pop.uky.edu>
66) [14219] Re: Questions...?
by "laura halliday" <marsgal42@hotmail.com>
67) [14220] Yaesu VX1R

- by "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
- 68) [14221] WTB: NorCal 40A, Rev. B
by "Allan G. Taylor" <ataylor@heracles.llnl.gov>
- 69) [14222] Re: Questions...?
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 70) [14223] QRP+ question & FD Results
by "Evert R. Halbach" <cs-erh@nich-nsunet.nich.edu>
- 71) [14224] Re: Dipole as a reference antenna
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 72) [14225] Another Happy Wilderness Sierra/KC2 Owner
by DENNISMO@aol.com
- 73) [14226] Re: CB/QRP 4th of July Special
by Steven Weber <kd1jv@moose.ncia.net>
- 74) [14227] Re: Dipole as a reference antenna
by "Ed Hare, W1RFI" <ehare@arrl.org>
- 75) [14228] How low can we go? Less than a watt?
by "Kelly Ellison" <kelman@dialnet.net>
- 76) [14229] Summer Homebrew SPrint
by camqrp@cyberg8t.com (Cam Hartford)
- 77) [14230] Re: Dipole as a reference antenna
by applitech@mcg.net (Claton Cadmus)
- 78) [14231] Re: Inverteed V vs. Dipole
by talljazz@teleport.com (Dan Presley)
- 79) [14232] Re: Dipole as a reference antenna
by Roger Hightower <n7kt@earthlink.net>
- 80) [14233] For sale
by Roy Jackson <rjackson@iname.com>
- 81) [14234] Re: How low can we go? Less than a watt?
by "Kelly Ellison" <kelman@dialnet.net>
- 82) [14235] Re: Where get a PIXIE?
by haf47@juno.com

Date: Wed, 01 Jul 1998 18:58:47 EDT
From: nq2rp@juno.com (B/BAMS Club Station)
To: qrp-1@Lehigh.EDU
Subject: [14154] RE: 30M openings
Message-ID: <19980701.185817.7695.1.nq2rp@juno.com>

Now just wait a minute!!!

True, SSB is NOT allowed in the US of A and possessions (under the "nominal" control of Part 97), but that may NOT be the case worldwide.

Before saying that "It's NOT allowed..." and seeing that this IS a international medium here on the QRP-L, Let's see what our VK QRPers have to say on this.

72/73, Keith, WB2VU0 at the keys at B/BAMS
NQ2RP - QRP-L # 1294, Byron/Bergen AMateurS Club Station
Listen for our 10 Mtr Milliwatting Beacon: 125 mW @ 28.2875 MHz
"My night light runs more power than my Rig!!!"

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 1 Jul 1998 19:11:43 EDT
From: K2UD@aol.com
To: qrp-l@Lehigh.EDU
Subject: [14155] Argosy Mixer info
Message-ID: <81e4b961.359ac237@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

My friend, K2SH has an Argosy that he won't let me borrow! But that's another story.

He would like to gather any info there is on the ND287C1 mixer used in the Argosy. Any helpers here? Send any info to me privately. TNX all.

72,

Howard Kraus, K2UD

Date: Wed, 01 Jul 1998 16:36:17 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: nq2rp@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [14156] Re: 30M openings
Message-ID: <359A6581.2FD89E41@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Check the ARRL Operating Manual, page 2-20 for info on IARU Regional Band Plans.

It appears that SSB is allowed only in in Region I under certain emergency situations.

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

"The problem with doing nothing is not knowing when you're finished"
(Nelson DeMille)

Date: Wed, 1 Jul 1998 19:39:57 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [14157] Inverted V vs. Dipole
Message-ID: <009f01bda549\$90e0f720\$2c5445c6@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All You Antenna Guru's,

Which works better a Inverted V or a Dipole??

Thanks,
73, Good DXing & QRPing
Ron de WB3AAL

E-mail: wb3aal@talon.net
http://www.kpsnet.com/wb3aal/Start_Page.htm
BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA

EPA QRP # 1 QRP # 5318 10-10 # 13173
QRP-L # 1099 G-QRP # 3031 AK QRP # 309
Adventure Radio Society #380
Bumblebee #84

Date: Wed, 01 Jul 1998 19:03:47 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: wb3aal@talon.net

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [14158] Re: Inverted V vs. Dipole
Message-ID: <359ACE63.D62960F9@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Which works better: a Ford or a Chevy?

--

72/73, George
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Ron Polityka wrote:

>
> Hello All You Antenna Guru's,
>
> Which works better a Inverted V or a Dipole??

Date: Wed, 01 Jul 1998 17:15:52 -0700
From: Vic Rosenthal <rakefet@rakefet.com>
To: wb3aal@talon.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [14159] Re: Inverted V vs. Dipole
Message-ID: <359AD138.D7AFB548@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ron Polityka wrote:

> Which works better a Inverted V or a Dipole??

A dipole. But if you must make an inverted V for mechanical reasons, make the included angle as large as you can. 120 degrees is good, less than 90 degrees is bad. I doubt that you would notice the difference if the angle is reasonable. I recommend a balun, too, for either type of antenna. Less noise pickup and RFI potential.

Vic, K2VCO

Date: Wed, 01 Jul 1998 19:17:11 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: qrp-l@Lehigh.EDU
Subject: [14160] [Fwd: Inverted V vs. Dipole]
Message-ID: <359AD187.691C0180@swbell.net>
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----968A0918047F55680C738A18"

This is a multi-part message in MIME format.

-----968A0918047F55680C738A18
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As I read this response to Ron's question, it occurs to me that it could be considered "flip" and "cute" and possibly offensive. Such was not my intention.

I was trying to emphasize the difficulty of answering his question, as general as it is, by comparing it to a similar unanswerable question in another area perhaps more familiar to him.

My apologies to Ron and others if I seemed out of line and inconsiderate of his question. I honestly don't know how to answer him, so maybe LB can step in here and impart his usual "help for someone."

--

72/73, George
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)
-----968A0918047F55680C738A18
Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Return-Path: <w5yr@swbell.net>
Received: from mail-gw2adm.rcsntx.swbell.net (mail-gw2adm.rcsntx.swbell.net [151.164.60.102])
by mail1.rcsntx.swbell.net (8.8.5/8.8.5) with ESMTP id TAA28018
for <w5yr@mail1.rcsntx.swbell.net>; Wed, 1 Jul 1998 19:03:53 -0500 (CDT)
Received: from swbell.net (ppp-151-164-50-33.rcsntx.swbell.net [151.164.50.33])
by mail-gw2adm.rcsntx.swbell.net (8.8.5/8.8.5) with ESMTP id TAA08975;
Wed, 1 Jul 1998 19:03:47 -0500 (CDT)
Message-ID: <359ACE63.D62960F9@swbell.net>
Date: Wed, 01 Jul 1998 19:03:47 -0500
From: "George T. Baker" <w5yr@swbell.net>
Reply-To: w5yr@swbell.net

Organization: AutoPOWER Systems
X-Mailer: Mozilla 4.02 [en]C-DIAL (Win95; U)
MIME-Version: 1.0
To: wb3aal@talon.net
CC: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: Re: Inverted V vs. Dipole
References: <009f01bda549\$90e0f720\$2c5445c6@default>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Which works better: a Ford or a Chevy?

--
72/73, George
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Ron Polityka wrote:

>
> Hello All You Antenna Guru's,
>
> Which works better a Inverted V or a Dipole??

-----968A0918047F55680C738A18--

Date: Wed, 1 Jul 1998 17:29:51 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Ron Polityka <wb3aal@talon.net>
Cc: QRP-L <qrp-l@Lehigh.EDU>
Subject: [14161] Re: Inverted V vs. Dipole
Message-ID: <Pine.SOL.3.96.980701172139.2968B-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ron,

Ah, you have opened a real can of worms!! :-)

There is a lot of truth in the Ford/Chevy reply.

What do you want the antenna to be better for?

If you want one that will be better with only one support, it's the Vee.

If you want to work DX then it becomes a matter of how high each one is.

A dipole up around 1/2 wave is a very good antenna. On 40m that is getting close to 70'. Put the same antenna up only 15' and it's a good cloud warmer. Fine for close in contacts but not the best for DX.

If you put your dipole up like an inverted vee with the apex at 20' it will do better on DX than the dipole at 20'. (Usually)

Best thing to do is put up both and switch between them. Only then will you really KNOW which one works the "best" for you at your location.

The reality is that there will be times when one is better and other times when the other one is!

It will be fun reading all the replies you get!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Wed, 01 Jul 1998 20:40:44 EDT
From: penzo@juno.com (Michael A Penzo)
To: Wb4jjj@aol.com
Cc: qrp-l@Lehigh.EDU
Subject: [14162] Re: Freq-Mite in SW-40+
Message-ID: <19980701.191932.7671.0.penzo@juno.com>

I agree with you, Alan. The freq-mite seems like a super accessory for the SW40+. Mine went together very easily but like you, I had to study the directions for the offset pretty carefully but finally came to the same conclusion as you did, the SW40+ doesn't need any offset.

I haven't completed my SW40+ yet (following the pace of the elmer course) but I have given considerable thought about where and how to mount the little freq-mite inside Dave's slick enclosure. I'll probably mount it in the rear left corner and install the pushbutton below the row of existing connectors on the back. I just hate the thought of drilling holes in Dave's great looking case!

One other thing I have noticed is that, as advertised, the freq-mite goes to "sleep" when not in use (the oscillator stops) but the current drain remains the same, about 18 mA for my unit. I'll probably add a power switch so that the freq-mite can be turned off when not in use and power can be conserved.

As for specific SW40+ hookup info, Dave was kind enough to provide some helpful suggestions via email. Again, I haven't tried these hookup points because my rig is not complete yet. Hope this helps....

My question to Dave:

>I do have one question on the freq-mite. After reading through the
>>manual, I didn't see any specific directions for taping into the SW-40+.

>Any suggestions as to the best place to pick off the RF and inject the
AF

>(so that the sound will be in the headphones of the rig)?

His response:

>The easiest location to pick off RF is right at the emitter of the L0.
This

>can best be accessed by tying onto R17 (2.2K) on the topside of the
board. AF

>can be injected by tieing either into R9 (4.7M) or R10 (22K) on top of
the

>board- those points are just prior to the last AF amp stage.

73,

Mike, KT4FJ

Stafford, VA.

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 1 Jul 1998 20:40:38 -0400

From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [14163] Inverteed V vs. Dipole
Message-ID: <00e301bda552\$09fb3000\$2c5445c6@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Boy what a debate!

Let me elaborate a little on the antenna. I am going to run the Bumble Bee run from atop of a 1,500 foot mountain. The trees are about 40 feet high. I was going to take a half wave 40/20 meter dipole, hopefully with the 15 meter working also. I was going to put the antenna in a East/West direction. The mountain will run out about 20 feet from each end before it drops off. I was planning to hang it as a dipole but I was just curious about the Inverted V. I don't have the opportunity to play with wire antennas at my QTH.

Thanks,
73, Good DXing & QRPing
Ron de WB3AAL

E-mail: wb3aal@talon.net
http://www.kpsnet.com/wb3aal/Start_Page.htm
BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA

EPA QRP # 1 QRP # 5318 10-10 # 13173
QRP-L # 1099 G-QRP # 3031 AK QRP # 309
Adventure Radio Society #380
Bumblebee #84

Date: Wed, 01 Jul 1998 17:44:07 -0700
From: W7LS <w7ls@blarg.net>
To: "Lawrence M. Koga" <crshi@aloha.net>
Cc: qrp-l@Lehigh.EDU
Subject: [14164] Re: 12 Volt QRP Power Source
Message-ID: <359AD7D7.7031@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. Yeah, I remember that was a fix for some of them. My particular pair of units had batteries that would not take a charge. I removed them from the product and used a 14 volt source and a current limiting resistor. They still wouldn't take a charge. Garbage batteries.

Jim W7LS

Lawrence M. Koga wrote:

>
> W7LS wrote:
> >
> > Hi, Dennis. There was a thread about these a while back. I have two of
> > the same type units. Both are dead as a doornail. I called the importer
> > in New York to ask why they are dead and the batteries won't take a
> > charge, even on an external charger. He said that the batteries are not
> > expected to last more than 2 years. They do not choose top of the line
>
> Hi, The problem with these units is cold solder joints. They are mass
> produced in China. You should go through every joint with a soldering
> iron. The unit will work fine.
>
> Lawrence

Date: Wed, 01 Jul 1998 20:07:44 -0500
From: Steve Yates <aa5tb@swbell.net>
To: adams@chuck.dallas.sgi.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [14165] Re: 30M openings
Message-ID: <359ADD5F.96A35F4B@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Chuck,

I have often heard SSB traffic from Australia many times. The following link will give you the Australian band plans for 30 meters:

<http://www.vk5wia.ampr.org/wia/bandplan/30mband.pln>

73,
Steve
AA5TB

Date: Thu, 02 Jul 1998 02:03:59 -0500
From: Wayne Alexander <walexander@wwn.net>
To: qrp-l@Lehigh.EDU, heath@listserv.tempe.gov, hallicrafters@qth.net, forsale-swap@qth.net
Message-ID: <3.0.3.32.19980702020359.006a7b08@pop.wwn.net>
Mime-Version: 1.0
Content-Type: text/enriched; charset="us-ascii"

SX-28a and Lysco is sold. thanks to all that replied.

<paraindent><param>out</param>73

</paraindent>KB0PTE

Wayne

QRP-L #1058

FISTS # 4907

Date: Wed, 01 Jul 1998 21:27:57 -0400
From: "Ed Hare, W1RFI" <ehare@arrl.org>
To: qrp-l@Lehigh.EDU
Cc: sford@arrl.org
Subject: [14167] Re: Inverted V vs. Dipole
Message-ID: <359AE21D.1B3B@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ron Polityka wrote:

> Hello All You Antenna Guru's,

> Which works better a Inverted V or a Dipole??

I just ran a NEC-4 analysis of an 80 meter flat dipole at 60 feet vs an 80 meter inverted vee with the apex at 60 feet and the ends at 10 feet. Ground was average. Here is what I found:

80 M dipole:

Feed point: 72.9 ohms Gain 4.14 dBi at 30 degrees elevation angle, 6.71 dBi at 90 degrees

80 M inverted vee:

Feed point: 41.2 ohms Gain 0.41 dBi at 30 degrees elevation angle, 4.21 dBi at 90 degrees

The inverted vee was more omnidirectional at 30 degrees; the dipole showed a more typical dipole pattern, with -8 dB nulls off the ends at that angle. If I wanted maximum gain in the direction parallel to the antenna, I would select the dipole, but if I wanted best coverage in all directions, I would select the inverted vee.

72 from the ARRL Lab,
Ed Hare, W1RFI
ARRL Lab

Date: Wed, 1 Jul 1998 21:37:16 -0400 (EDT)
From: art marshall <w1fji@vistech.net>
To: qrp-1@Lehigh.EDU
Subject: [14168] Help - Morse Key
Message-ID: <199807020137.VAA16086@44mag.vistech.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Return-Path: <owner-qrp-1@Lehigh.EDU>
>Date: Wed, 1 Jul 1998 06:21:23 -0400
>Reply-To: RadKit@compuserve.com
>Sender: owner-qrp-1@Lehigh.EDU
>From: Alan Lake <RadKit@compuserve.com>
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Help - Morse Key
>Content-Disposition: inline
>X-Sender: Alan Lake <RadKit@compuserve.com>
>X-To: unknown <qrp-1@Lehigh.EDU>
>X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN
>

I have one sitting here in front of me , its a Mon-key keyer, it has 2 12AU7 and 1 35W4 and sold for 29.95. I used it for years and put it away years ago, didnt know there were any more around until I read ur msg, then I pulled it down to verify it. they were a very good keyer many many years ago. hope this helps, u can see mine on my web page,

<http://www.vistech.net/users/w1fji/realpage.html>

page down to w1fji's museum, and it is in there along with the rest of my stuff.

73 art w1fji

>I need any information regarding history and circuitry of an old (probably
>1940/50 era) morse key / keyer.

>It is mounted on a moulded base measuring approx 11 x 4.25 inches. The key
>(paddle) is across the front of the base. The keyer electronics employ 3
>valves, one of which (B7G) is missing. One of the remaining two is a 12AT7.
>The other, type unknown, also appears to be a double triode. This lot is
>enclosed in a die-cast ribbed case, finished in black crackle.

>There are 3 controls - ON/OFF switch, a 6 position rotary switch and a pot.
>A small monitor speaker is mounted on the base.

>The only identification, moulded under the base, is ELECTRIC EYE EQUIPMENT
>CO. DANVILLE, ILLINOIS, USA 110 VOLTS AC OR DC.

>Other than a question mark hanging over the electronics the whole thing
>appears to be in good condition. Before attempting any testing or repairs I
>would very much like to find out more about it! Any suggestions or
>information would be greatly appreciated!

>Alan Lake, G4DVW, GQRP #162

>

>

Date: Wed, 01 Jul 1998 21:33:37 -0400

From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>

To: qrp-l@Lehigh.EDU

Subject: [14169] Batteries

Message-ID: <359AE371.AD800D84@home.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I picked up a unit at Sams Club put out by Century called a Jumper 850
(claimed 850 "Peak" Amps whatever that means) I've been running my whole
station off of it for over two weeks now including a chunk of Field Day.
It's designed to jump start cars but it has a light plug hole (used in
reverse for recharging) Paid \$9.95 with a \$10 rebate coming my way.

> couple weeks ago QRP Batteries were a hot item on this list and lots >of good
>ideas sprang forth.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

QRP-L 1610 QRPARCI 8634

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Author of: RADIO MONITORING The How-To Guide

ISBN 1-56866-101-0

Index Publishing Group, San Diego, CA

ipgbooks@indexbooks.com

<http://www.electriciti.com/~ipgbooks>

Date: Thu, 02 Jul 1998 02:44:07 -0500

From: Wayne Alexander <walexander@wwn.net>

To: qrp-l@Lehigh.EDU, heath@listserv.tempe.gov, hallicrafters@qth.net, forsale-swap@qth.net

Subject: [14170] Item for sale

Message-ID: <3.0.3.32.19980702024407.006a6fcc@pop.wwn.net>

Mime-Version: 1.0

Content-Type: text/enriched; charset="us-ascii"

The telegraph apparatus bug is sold.

<paraindent><param>out</param>73

</paraindent>KB0PTE

Wayne

QRP-L #1058

FISTS # 4907

JB@aX)'*KEQ4c)'C[FL"dEh4KE#!0#3NJF'pTER4c,L"9,P-Z)#BJ3f&ZB@4K)'4
[]'j[G#"MEh9ZG#"Kfb"MEh9ZG(*TCA-Z)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!
J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!
J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!J)#!
&4[G'&X)("[D@jdFb"YBANJBQ8JEA9XG'P'E'PPC#"LH5!a,M)e)'C[FL!JD'p
YC5"LFQ9h,'d*#3PMEfeYCA*MD@&X)&*B)'pb)&4B)'0[E@*TEQ&dD@pZFbiJ6A9
XG'P'E(NJBRNJ-5ie)'C[FL!0#3N*B5"dEh4KE#"SEfeP,5"LFQ9h)(0dBA4TEfi
Z)%K[E@8YBR*Pgb!p)'&ZH5"VDA3JEh)JD'pYC5!0#3N*E@&NC5"RC@&b,#"TG#"
TFb"ZEh3JEQ9MCA0cBA*j)'C[FL"jEh8JG'mJD'&fC5"LG@PXG#!0#3N*DA3JH@p
eFR0PE'BZ)#!J)#!J)#!J)#!J\$3e"9d&54&-k)%0PFR4TCQPMBA4PFb"KGf&bC'9
N)'*j)'0XBA0c)'C[FL"PB@0S)&0dBA4P,e"bEhCTEQ0P,d0[G@jdFRNJ+\$8')!d
*)#!J)&&66b"0D@jTEA9Y+5iJ)#!J\$3d*35"XC@GTBQaP,#"MD(*[EQpXefGTBf&
X)'a[Cb"TFb"bCA&eDA*PC#iJ8'aPBA0P)'PZBfaeC'8JH@peFL"ZB@eP,#!0#0@
KE'X)'&NC(*PFh-X)'9aG@P'E@9ZG#"NCA0MFQP'G'P[EL"KEQ3J8%pA49)J6e9
88&98,L"-EfGc)!d*EA9cG#"LC5"bC@0PDACPC#"LH5!'1#"G@GeFh3X)\$%j16J
Z)&*PFh9XG(-JGfPXE#"LC5" `FQPZG'9N)'PZ)(4SC5!0#@jPH(3JBACKD@aKBQa
P)&3e9biJ4QPZB@`JC'9MDA0TEfiJEfiJB@jj)'0[ER4PFh3JE@&dG'9bFb"bCA0
d)!d*GfPdD#"dD'8JBfpZG'9cG#"YB@jKcf9b,L"&,8eKD@`JE'pR)(0eBQeTFh0
TEfiJDA-JC@jMEh9bB@GPC#%0\$8&XE#"XEfGc)(4[1L!J)#!J)#!J)#!J)%`Z)&3
Z)&0A594D49)J6MK\$88%J)#!J)#!J)#!J)%8Y6@&TE#" -EfGc)(4[1L"Z1'0aB8"
dDA)ZBfpY\$3N*)#!J0M8d)%G&6e*(58%J39C&6P9&\$3N*)#!J68&5@90@58a-45"
055!d1\$d-#da-M3c)#!J)#!J)#!J)#!J)#!J)#!J)#!J\$3e-EfFJB@jN)'9ZG(*
j)(0SC@9dFb"KGQ&TE'&LE'8JCQpb)'%J8d&645"dEb"dD'8JB@*[GQ8Z\$3d0\$4T
c!!!!:

--===== _899355489==_
Content-Type: text/plain; charset="us-ascii"

* L. T. "Buck" Switzer, N8CQA, 654 Georgia Ave., Marysville, MI 48040-1243
*
* Home (810)364-9640, Home Fax (810)364-8179, Work (810)469-1600
*
* n8cqa@tir.com, am441@detroit.freenet.org
*

--===== _899355489==_--

Date: Wed, 01 Jul 1998 20:44:15 -0600
From: Jeff Johnson <jeff@dcsoftware.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [14172] Freq Mite
Message-ID: <3.0.32.19980701204413.00aecc80@dcsoftware.com>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Group: My friend Yoshi K7YS built his Freq Mite into his ZM-2 tuner. That way he can use it with different rigs. He used a 9 volt battery and for a speaker he used a broken ear bud. It fits nice and both the Freq Mite and Tuner seem to work just fine. I plan to do the same with mine.

Jeff Johnson
KJ7LO
jeff@dcsoftware.com

Date: Wed, 01 Jul 1998 22:48:39 EDT
From: k7sz@juno.com (Rick Arland)
To: qrp-1@Lehigh.EDU, qrp@qth.net, tentec@contesting.com, tentec@qth.net
Subject: [14173] Reducing Argosy "Popping" on CW
Message-ID: <19980703.030409.2687.5.k7sz@juno.com>

I just procured an Argosy-II a couple of weeks ago and tried using it on CW. The full QSK that is so nice on the Argonaut, Corsair and Omnis, has an annoying "pop" on the Argosy.

After looking through some ARRL Hints and Kinks, I found a mod that replaces the stock 1 mfd cap at C-40 on the IF board with a 10 mfd 16 volt electrolytic. This slows down the AGC recovery and reduces or eliminates the "popping" encountered when using CW on the Argosy.

I performed that mod this evening (took about 15 mintues) and boy, what a difference! My Argosy-II is now fun to use on CW.

73 rich K7SZ

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Date: Wed, 01 Jul 1998 21:57:47 -0500
From: mfitz@uswest.net
To: qrp-1@Lehigh.EDU

Subject: [14174] DIPOLE, INVERTED-V, OR...
Message-ID: <359AF72B.F50A9D14@pop.omah.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gentlemen, my 2 cents worth....having used said dipoles and inverted-v's in a variety of locations. Now, don't get your dander up, but, I would suggest a half square over either IF you want a little inherent directivity and some low-angle radiation to get out there a bit further. Same horizontal length as dipole. Same direct feed with coax of your choosing. Another personal favorite, the vertical loop configured for direct feed with coax. Make the two horizontal lengths twice as long as the two vertical components and feed in the middle of either vertical side with coax. On my RF-1(Autek Research SWR analyzer), using an electrical half-wave length of 9913F, I read a 1.6:1, something I can live with. To elaborate, the thing is now a rectangle, not a square, and, yes, you do give up a smigen(sp?) of gain over a square loop, but you don't have to mess with a matching stub or balun. Standard formulas for either antenna. Just my opinion.... Mike KI0AF/QRP

Date: Wed, 01 Jul 1998 23:00:54 EDT
From: k7sz@juno.com (Rick Arland)
To: qrp-l@Lehigh.EDU, qrp@qth.net
Subject: [14175] Neophyte?????
Message-ID: <19980703.031612.2687.6.k7sz@juno.com>

Gang:

Going thru the 5 tons of junk (junque?) in the basement and found a neat little PCB inside a baggie of parts. The bottom of the PCB says "Neophyte REV-2" and apparently it is a NE-602 based receiver with a LM-386 AF chip.

Does anyone have any info on this kit? How about a schematic and/or parts layout (the PCB is not silkscreened). I have no idea of what freq range that this thing is supposed to operate on. The name "Neophyte" kinda rings a bell, but I just can't seem to pin it down (alzhimers kicking in again). Anyone know if this design appeared in QST, CQ or QQ?

I'd like to get the necessary info together on this little RX and give it to a young QRPer who helped us at FD and needs a project.

73 rich K7SZ

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Date: Wed, 1 Jul 1998 22:12:05 -0500
From: nilsbull@juno.com (Nils R Young)
To: QRP-L@Lehigh.EDU
Subject: [14176] Back from camp, caffein, chickens & biktaim trabilman
Message-ID: <19980701.221209.9118.0.nilsbull@juno.com>

Gang,

One thing, out of many, I learned this week at CubSprout camp with Andy was my caffein addiction level has reached a level that requires constant monitoring. Headaches that explode -- just like they did when I was pre-caffein addicted -- are devastating. And migraines of one form or the other are a constant in my life.

Thing #2 was the number of other hams who had showed up to play roughing it with the kids. Some of 'em were kids. Made me wish that I'd taken the traveling radio box of whatever.

Thing #3 is the distinct possibility that I will take the box of radio whatever with me on the "official vacation" in SC, if only to spend a couple hours at night now and then, infrequently, being radio weird.

But I'm buyin' an extra coffee maker to take . . . and more than three changes of socks. Which is another thing I learned . . .

Maybe we meet on the air. Taking the ARK30 and the TAC1/40 & some wire &c.

73
Nils

Nils R. Bull Young
La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch
WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com
<http://www.geocities.com/Athens/Olympus/9172>

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Date: Thu, 2 Jul 1998 03:59:17 +0100
From: "Tony Fishpool" <g4wif@btinternet.com>
To: "QRP-1" <qrp-1@Lehigh.EDU>
Subject: [14177] Freq-Mite in SW-40+
Message-ID: <E0yrZiw-0007f0-00@praseodumium.btinternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Yesterday, Alan, WB4JJJ wrote about the Freq-Mite, and I have to second his remarks. This is a super kit and Dave Benson deserves to sell bucket loads of them. I've written a review for SPRAT & QRPP, so I won't repeat all my remarks to the list, but it's a "gotta have" item.

I'm currently fitting one to my old MFJ antenna analyser. It's one of the early one's without a digital display. For 20 dollar a shot (inc. postage to ANYWHERE), you can afford to poke one in near enough everything!

For more details check out <http://www.fix.net/~jparker/sml.html>

Usual "no connection/satisfied customer" disclaimer

Tony - G4WIF

p.s., you chaps in the colonies have some sort of celebration coming up in a few days. Do have fun.

Date: Wed, 01 Jul 1998 23:21:41 -0700
From: astone@erols.com
To: qrp-1@Lehigh.EDU
Subject: [14178] Pinout for 2N7000
Message-ID: <359B26F5.5493@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi -- Is the pinout and specs. roughly the same as a MPF 102? Thanks for your help.

72,

Ron (KA3J)
Bethesda, MD

Date: Wed, 01 Jul 1998 23:23:09 EDT
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [14179] 10 Mhz DX
Message-ID: <19980701.102136.4503.3.n4so@juno.com>

>From the Northern Calif. DX Club Bulletin
0200z 14.002 (Sunday evening but Monday Zulu time)

Here is a sampling of DX on 10 Mhz

yb0ara/9 10103 1135z
9j2bo 10104 1415z
38bcf 10103 0315z
9n1fp 10109 2315z

Also need mail order sources for ordering a modem for
Juno. The backup computer's modem is down.

Ken Brown, N4SO
QTH nr Mobile, AL/ EM50tk
qrp-l #622
n4so@juno.com

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Date: Wed, 1 Jul 1998 20:56:57 -0700
From: "Roger A. McCarty" <rmccarty@earthlink.net>
To: <cnse97@lmpsil02.comm.mot.com>, "Low Power Amateur Radio Discussion" <qrp-

l@Lehigh.EDU>
Subject: [14180] Re: FD 98 de N6WG
Message-ID: <01bda56d\$75558880\$94aad9cf@accurate-main>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Bob,

Yes, I/we remember working your field day call sign however, so as not to embarrass the Zuni loopers, the WQ6RP call sign was used by a group other than K6ZNI.

The WQ6RP group consisted of Godi AC6UV on 40m CW, Bob KE6QED and Bill K6WHP, SSB all bands, and me, Roger KD6CC on 20 - 10M + 80M CW in the evening. We also had some great assistance with logging from Duke KD6ZXB. Our location was in the Angeles National Forest at the Chilao Campgrounds, about 45 miles West of the Zuni Loopers.

We did ourselves proud for our first effort, regardless of how the scores should turn out. I think the group worked very well together and with what we learned from this outing, can only help us to do better next year.

The 20-10m antenna was a three element tri-bander at about 25', mounted on the back of my pick-up. Worked pretty well! See at;
<http://www.accurate-electronics.com/other/mobileant.html>

Three of us were busy snapping up pix. Soon we will gather them together and put together a collage of sorts.

72!

Roger KD6CC es the WQ6RP FD Crew

-----Original Message-----

From: Tellefsen Bob-CNSE97 <cnse97@lmpsil02.comm.mot.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Wednesday, July 01, 1998 1:46 PM
Subject: FD 98 de N6WG

>I remember a few of the calls we worked-K6ZNI breaking in their new club
>call, WQ6RP

Date: Wed, 1 Jul 1998 23:56:49 EDT
From: RangerSF5@aol.com
To: QRP-L@Lehigh.EDU, FORSALE-SWAP@QTH.NET
Subject: [14181] WHO HAD SOME MFJ RIGS FOR SALE??
Message-ID: <f27344f.359b0503@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Howdy Gang,
A few days ago,
there were some MFJ gear for sale.
What happened to you guys??
Are the rigs still for sale??
I think one was a 6 meter job so if you still have it, or any 9440,
please *E* mail direct
Thank you
Bob
WA2HOQ

Date: Thu, 02 Jul 1998 00:01:35 -0500
From: John Sulllivan <kg0mz@southwind.net>
To: penzo@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [14182] Re: Freq-Mite in SW-40+
Message-ID: <359B142F.E8BA660F@southwind.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Michael A Penzo wrote:

>
> I agree with you, Alan. The freq-mite seems like a super accessory for
> the SW40+.

I put one in my SW40+. I pick up the rf between C2-C3 and feed the audio
at R10 with a 150K resistor. Not too loud, not too weak. Your ears may
require a different value.

"The offset code should be set to equal the 3-digit value of the IF
frequency in Khz." SW40+ IF is 4.000. So I set the jumpers thusly:
1111101000 (512+256+128+64+32+8=1.000). Of course, it doesn't work that

way. No jumpers = 000. Why didn't I think of that?

I would not hesitate to buy one of these for any rig. You can always ask Mr. B how to set the jumpers.

72 de kg0mz

Date: Wed, 01 Jul 1998 22:11:00 -0700
From: Jack Parker <Pparker@greatbasin.net>
To: qrp-l@Lehigh.EDU
Subject: [14183] "72" mixer injection inquiry
Message-ID: <3.0.1.32.19980701221100.0069c628@mail.greatbasin.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to all who responded to my inquiry...I found my difficulty, but I'm embarrassed so won't divulge the solution!

In addition to such acronyms as FWIW, IMHO, BTW and FYI, I have one more that I've used for years as a broadcast Chief Engineer that fits my situation: SBTHP....Short Between The Head Phones :>))

BTW, the little "72" works beautifully...0.2uV is a readable signal on receive and the transmitter puts out 1.5-watts. I listened to the signal on my FT-747, and it is very clean. Neat radio!

72/73,

Jack, W7PW

Date: Thu, 02 Jul 1998 01:29:36 EDT
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [14184] Electronic Goldmine/Goldmine Electronics
Message-ID: <19980701.122800.2223.6.n4so@juno.com>

Here is the e-mail address for Electronic Goldmine, and the 800 order line number.

The following is a saved text file.

From: "Eugene Hall" <evhall@ix.netcom.com>
Subject: Re: Goldmine

Electronic Goldmine:
P.O. Box 5408
Scottsdale AZ, 85261 USA
Phone: (602) 451-7454
Order Line:1-800-445-0697
Fax: (602) 661-8259
Email: goldmine-elec@goldmine-elec.com
URL:http://www.goldmine-elec.com.
goldmine.txt

nnnn

Ken Brown, N4SO
QTH nr Mobile, AL/ EM50tk
qrp-1 #622
n4so@juno.com

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Date: Thu, 2 Jul 1998 02:29:39 EDT
From: Ab7wy@aol.com
To: qrp-1@Lehigh.EDU
Subject: [14185] Re: Help - Morse Key
Message-ID: <425569fe.359b28d4@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi Alan, you can find out more about your key by typing up
fohnix.metronet.com/~nmcewan/key_id.html and fill out the form. be as
specific as possible, and soon after Neal, K5RW will get back to you....also
if you have any old or unusual keys, relays or bugs, let Neal know. he may
have a good trade for you. hope i could help, 72 Adam, AB7WY

Date: Thu, 2 Jul 1998 01:59:24 -0500 (CDT)
From: jdenison@morelr.com (JOEL DENISON)
To: qrp-1@Lehigh.EDU

Subject: [14186] wire/rope half square updated
Message-ID: <199807020659.BAA05323@ns1.morelr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang"

Well the Half square experment has been pronounced a great success... three elements on forty pointed n/e... used 69ft and 34ft then minus six percent then plus six percent.... director/reflector.... it reasonated or at least the swr was flat around 7.230...

I heard europe stations from s5 to s9 and my noise level stayed around s2... seems to be a quiet antenna...

Unfortunately I kept hearing the dx in the extra part of the band, which does me no good, so I took the ant down and put up a three element yagi facing the lower 47... man is the noise level high...

I am considering putting up a three element half square for thirty ;meters and pointing it toward europe, or maybe even twenty meters... we'll see...

By the way I read a post that said a dipole had around 4db gain???? I thought the dipole was the reference ant.... that should be unity gain, shouldn't it??? well, what do I know... put them in groups of threes and be they half square, square, dipole, inverted v, verticals or whatever ... u can get more gain out of em... :-)

Be Happy

joel, wa5cvm, north of dixieland, in the state of maine, south of bangor...

God Bless
Joel

WA5CVM
Joel Denison
PO BOX 542
Strong, Maine 04983
jdenison@morelr.com

Gentlemen don't Cry, They QSY :-)
Gentle Lady (RC Sail Plane)(049 engine - start)
3 element Half Square on 40mtr Half Square on 30
QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765
AK/QRP 109

Date: Thu, 2 Jul 1998 00:13:30 -0700
From: Conrad <radman@best.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [14187] CB/QRP 4th of July Special
Message-ID: <01BDA54E.3EE3F1C0.radman@best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Tech_America is running a 4th of July Special on
(forgive me, please) a 4 watt, hand-held GE 40 channel CB
car radio complete with cig power adapter, Mag-Mount
antenna, the radio and storage case for \$17.76 (get it?)

(regularly \$69.95)

URL: <http://www.techam.com/insiderflyer.asp>

(secret code for ordering: XGAA2)

Perhaps Steve Weber could figure out how to convert
these things into something useful - like a 10 meter
4 watt QRP handie-talkie?

It *is* QRP :),

72 - Conrad - NN6CW

Date: Thu, 02 Jul 1998 00:13:16 -0700
From: W7LS <w7ls@blarg.net>
To: qrp-1@Lehigh.EDU
Subject: [14188] British military key FS/trade
Message-ID: <359B330C.730E@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. I have a British military key for sale or swap. It is brand new.
Appears to have never had wires on it. Made by Westclox. Has three
terminals on it. Normally closed (how odd....) and momentary closed (the
usual kind of key). Made of stainless steel and has a mushroom knob on it
for your finger. It is not an enclosed type. It is completely open
framed. Black bakelite base. Extremely rugged. \$50 or swap for some qrp
goodie that will work on 80 meters. Tnx/73 de Jim, W7LS

Date: Thu, 2 Jul 1998 00:26:19 -0700
From: Conrad <radman@best.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [14189] Benchtop Power Supply Special

Message-ID: <01BDA550.09079320.radman@best.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Tech_America is running a special on their Samlex Model
PSA-305 Adjustable DC Power supply: 0-30 VDC, 5 A
Continuous/7A ICS with separate voltage and current meters.
Front binding posts and "low-ripple."
Mfr. Warranty: one-year limited. Size: 6.7x13.7x11.1"
(HWD).
Weight: 16.2 lb.

Half-price at: \$99.97.

URL: <http://www.techam.com/insiderflyer.asp>

Secret code for ordering: XGAB2

Sounds like a good price.... I don't know the brand :),

72 - Conrad - NN6CW

Date: Thu, 02 Jul 1998 06:56:01 -0400

From: Tom Bowman <tbowman@nbn.net>

To: k7sz@juno.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [14190] Re: Neophyte?????

Message-ID: <3.0.5.32.19980702065601.0081b280@nbn.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 11:00 PM 7/1/98 EDT, Rick Arland wrote:

>Gang:

>

>Going thru the 5 tons of junk (junque?) in the basement and found a neat
>little PCB inside a baggie of parts. The bottom of the PCB says "Neophyte
>REV-2" and apparently it is a NE-602 based receiver with a LM-386 AF
>chip.

QRP Classics shows the Neophyte receiver can be built for 80m or 40m.
According to 'Classics, the original article ran in the Feb. 1988 QST.

As I remember, this was one of the first uses of the NE602 in ham magazines.

If you need a copy, please send your address by private e-mail.

Tom,
WA3REY

Tom Bowman <>< WA3REY, Mount Gretna, PA 17064

<http://www.mt-gretna.com> tbowman@mt-gretna.com

Date: Thu, 2 Jul 1998 07:55:19 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: //QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "+Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [14191] WTB:PS for Corsair I
Message-ID: <199807020757_MC2-51F0-BBF2@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Gang:

Would like to buy the matching Ten-Tec power supply for a Corsair I. If you have one available, please let me know.

Thanks everyone and have a good holiday weekend :-).

72/73,
--Doc Lindsey/K0EVZ Rochester, MN--Home of the Mayo Clinic.
MWBC
519-16th Street SE
Rochester, MN 55904
507/289-5108 (eves)

Date: Thu, 2 Jul 1998 07:13:51 -0500
From: k5yu@juno.com (harvey n mitchell)
To: qrp-l@Lehigh.EDU
Subject: [14192] FS - 20 meter SSB QRP
Message-ID: <19980702.071354.6782.0.k5yu@juno.com>

For Sale: 20 meter QRP SSB rig, White Mountain 20 by Small Wonder Labs as seen in the April 1997 QST. It includes the audio morse frequency counter chip. It is built in a homebrew PC board case thats about 5-3/4"w x 5"d x 1-9/16"h and is painted gray. Its a nice little radio with a great receiver. Asking \$105.00 shipped CONUS.

Thanks,

Harvey Mitchell, K5YU

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 02 Jul 1998 08:38:47 -0400
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [14193] Re: Inverteed V vs. Dipole
Message-ID: <359B7F57.215D@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Steeply sloping ground can greatly lower the angle of radiation, possibly with fewer notches in the vertical radiation pattern. Thus, mountaintop stations W6QHS/KK6QM not only have great signals, but are in there for longer periods of time. Dave found his antennas were actually too high--think they are now at 30 ft! Software by Brian Beezley and Dean Straw can do some modeling of terrain, but it may be a while before most antennas can be accurately modeled with confidence in the results.--Zack Lau W1VT

Date: Thu, 2 Jul 1998 08:32:06 -0400
From: Gary Oneil <n3go@us.ibm.com>
To: <QRP-L@Lehigh.EDU>, <klqrp@waterw.com>, <jsulliv@vt.edu>
Subject: [14194] Re: SMiTe RIT fix/mod, with Radio Shack FET
Message-ID: <5040400017655163000002L032*@MHS>
MIME-Version: 1.0
Content-Type: text/plain

Prof Jay and Gang;

I did the legwork last night to resolve the question of FET substitution for D2 on the KnightSMiTe. So far, I haven't found an N-channel J-FET that doesn't work in this application, so if you have any N-channel J-FET not included here, give it a try.

For the record, I tested the following 4 devices and all produce identical results... (i.e. fixed TX with independent RIT):

MPF-102	(Radio Shack P/N 276-2062 @ \$0.99 each)
2N3819	(Radio Shack P/N 276-2035 @ \$0.99 each)
J-309	(I think I got this from Dan's Small Parts @ a few for a buck as I recall)
NTE-102	(Same here... Dan's Small Parts I think... but don't have clear recollection)

The pinout of the MPF-102 and J-309 are identical, but the others are different. For convenience, I'll attempt to describe the pinout's here.

Viewing the pin side of the package with the flat side horizontal and facing skyward, the pins appear from left to right as follows:

MPF-102 and J-309	-	Drain	Gate	Source
2N3819	-	Source	Gate	Drain
NTE-102	-	Gate	Source	Drain

The mod is as follows:

Remove diode D2 and install the J-FET of your choice as follows:

Source - Connect to pad where the cathode of D2 was connected. (This is also connected

to the pad where the rig is keyed)

Gate - Connect to any convenient ground reference. (I choose the bottom of C3 and R2)

Drain - Connect to the junction of Y1 (the crystal) and C1. (the RIT tuning capacitor)

This should adequately and abundantly document this modification, and offer a bit of encouragement to those who may be uncertain of the consequences of part substitution.

72 and keep those mod ideas pouring in :-)

Gary, N3GO

Raleigh, NC

jsulliv@vt.edu on 07/01/98 01:32:02 PM
Please respond to jsulliv@vt.edu
To: n3go@amsat.org
cc:
Subject: smite mod question

Hi,

I enjoyed building my SMiTe, but have not yet been able to make a contact with it (I've been pretty busy and not on the air too much, though). I am interested in the N-channel JFET mod to the RIT. Is there a suitable Radio Shack equivalent/substitute to this transistor? There is not much other access to electronics parts here in Blacksburg, VA.

Thanks,

Jay
KC4WXB

Jay Sullivan, Associate Professor
Virginia Tech, Department of Forestry
Blacksburg, VA 24061
phone: 540-231-4356 FAX: 540-231-3698 email:jsulliv@vt.edu

Date: Thu, 2 Jul 1998 09:08:03 -0300
From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-1@Lehigh.EDU>
Subject: [14195] RE: Fet in place of D2 in PIXIE MOD
Message-ID: <01bda5b2\$109e1840\$LocalHost@luis>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The FET also works for the standard PIXIE, and the swedish "ALVA" as published in Sprat.
One good modification for ALL rigs of the same design is replacing the output-input low pass filter with a " REAL" tuned circuit....
It certainly improves RECEPTION for me !
Have tried both a simple LC tank circuit, and a PI network... results look better on the PI network...
I built both L's with NO TOROIDS, as I can't get them here.
The PIXIE, TIXIE,ALVA and the original russian design from the which the rig evolved can be further modified, by replacing the crystal controlled oscillator stage with a 2 FET VFO... That makes it a champ, as you no longer need to be stuck to a crystal controlled frequency !!!
Also try using a more powerful transistor in the output stage... it still works
OK as a product detector (notice no different), but puts out about 2.5 watts...
Here in Cuba, on 40 meters daytime, 2.5 watts seems to be the lower limit of useful power during the noisy summer months
Arnie
C02KK

Date: Thu, 02 Jul 1998 08:42:55 -0500
From: John Bohnert <johnb@elmhurst.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [14196] Questions...?
Message-ID: <359B8E5F.44BCF688@elmhurst.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am enjoying the Elmer project and have started to look at building accessories for the completed rig or the shack. Questions...

1. To build enclosures from double sided PC board, there must be some sort of "jig" to keep the pieces aligned at right angles, yet I never see any references or drawings to such "devices." I have dreamed up some pretty bizarre jigs...I must be seeing leaves and not trees. There are pictures/drawings of brass hex nuts soldered in such a way as to provide for the use of flat headed screws for securing the enclosure. What is the procedures holding these nuts in place while soldering? How do you get the nut/screw aligned properly to attach, say, the top of the enclose?

2. Dead bug construction might be the ticket for several of my anticipated projects. However, I only have two hands to hold the soldering iron, solder and the component "rigidly" in place to prevent a cold solder joint. It appears that a "chisel/flat" pointed tip is a good starting point! Beginning to think about one-armed paper hangers.

3. In visiting many of the websites maintained by QRPers I have noticed that many builders appear to place controls, readout devices from small meters to LED's, and input/output (RF) connectors on the "same face" of the enclosure. This is not the usual pattern for the equipment with which I am most familiar. What is the rationale for such placement?

72,
John N9KW QRP-L 1257
Elmhurst, IL

Date: Thu, 2 Jul 1998 08:27:43 -0500
From: applitech@mcg.net (Claton Cadmus)
To: <jdenison@morelr.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [14197] Dipole as a reference antenna
Message-ID: <00a501bda5be\$8240dc60\$a10a5e2c@groucho>

JOEL DENISON <jdenison@morelr.com> wrote in the message subject "wire/rope half square updated"

> By the way I read a post that said a dipole had around 4db gain????
>I thought the dipole was the reference ant.... that should be unity gain,
>shouldn't it???

This is the reason why many antenna experts would like to see dBi used exclusively in antenna gain measurements. dBd, i.e. dB referenced from a dipole, can be very misleading. A dipole has 2.14 dBi gain in "free space" but in normal installations its gain varies from about 0dbi for an Inverted Vee dipole to over 5dBi if placed at the right height over certain ground conditions. Years ago Hams used to use dipoles erected at their site as "references". A reference that can vary by almost 6dB isn't a good one.

Hope this Helps

73 de KA0GKC Claton Cadmus

cla@mcg.net

MNQRP #1

Minnesota QRP'ers we're looking for you!

Email me or visit this page <http://www.qsl.net/mnqrp>

Hi John,

I have made quite a few enclosures from double sided PC board and eventually built a simple jig to hold the pieces while soldering. I simply cut a couple pieces of 1/2" thick pine and joined them together at right angles using carpenter's glue and wood screws. I used a carpenter's square to make sure the boards stayed at right angles while the glue was setting up. Then I cut a couple 1/2" square strips the same length as the boards to serve as hold-downs. They can be held in place using C-clamps or you can get fancy and drill holes in the ends of the strips along with matching holes in the base and backboard. I went this route and used carriage bolts, washers and wingnuts to hold the 1/2" strips (and the PCB stock being soldered) in place.

You may also want to check out my "Elmer 101" plastic cabinet design on my webpage. See my signature line for the URL.

John Bohnert wrote:

> I am enjoying the Elmer project and have started to look at building
> accessories for the completed rig or the shack. Questions...
>
> 1. To build enclosures from double sided PC board, there must be some
> sort of "jig" to keep the pieces aligned at right angles, yet I never
> see any references or drawings to such "devices."

=====
Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>
=====

Date: Thu, 02 Jul 1998 07:46:26 -0700
From: Jack Parker <Pparker@greatbasin.net>
To: qrp-l@Lehigh.EDU
Subject: [14200] Re: Dipole as a reference antenna
Message-ID: <3.0.1.32.19980702074626.0068ec9c@mail.greatbasin.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:27 AM 7/2/98 -0500, you wrote:

>JOEL DENISON <jdenison@morelr.com> wrote in the message subject "wire/rope

>half square updated"
>
>
>> By the way I read a post that said a dipole had around 4db gain????
>>I thought the dipole was the reference ant.... that should be unity gain,
>>shouldn't it???
>
>This is the reason why many antenna experts would like to see dBi used
>exclusively in antenna gain measurements. dBd, i.e. dB referenced from a
>dipole, can be very misleading. A dipole has 2.14 dBi gain in "free space"
>but in normal installations its gain varies from about 0dbi for an Inverted
>Vee dipole to over 5dBi if placed at the right height over certain ground
>conditions. Years ago Hams used to use dipoles erected at their site as
>"references". A reference that can vary by almost 6dB isn't a good one.
>
>Hope this Helps
>----
>73 de KA0GKC Claton Cadmus

There *are* true reference antennas, as developed by what was then known as National Bureau of Standards, which are used commonly to calibrate antenna test ranges. Unfortunately, these antennas are not practical at HF unless one has extraordinary resources and metal-working skills :>)

I believe there is material in the ARRL handbook which gives information on these NBS reference antennas.

73,

Jack, W7PW

Date: Thu, 02 Jul 1998 09:53:50 -0500
From: Mike - W0TMW <crucis@sky.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [14201] Where get a PIXIE?
Message-ID: <359B9EFE.DA8857AB@sky.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Are PIXIEs still available? Where?

Mike - W0TMW

--

=====
Mike Watson, W0TMW QCWA Mbr# 28651, MidContinent Chapter #35
Raymore, Missouri, USA Grid: EM28st, ARS# 352, QRP-L# 1849
http://www.sky.net/~crucis E-mail: crucis@sky.net ARCI# 9647
=====

Date: Thu, 02 Jul 1998 11:04:42 -0400
From: "Ed Hare, W1RFI" <ehare@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [14202] Re: Dipole as a reference antenna
Message-ID: <359BA18A.162B@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Claton Cadmus wrote:

>
> JOEL DENISON <jdenison@morelr.com> wrote in the message subject "wire/rope
> half square updated"

> > By the way I read a post that said a dipole had around 4db gain????
> >I thought the dipole was the reference ant.... that should be unity gain,
> >shouldn't it???

> This is the reason why many antenna experts would like to see dBi used
> exclusively in antenna gain measurements. dBd, i.e. dB referenced from a
> dipole, can be very misleading. A dipole has 2.14 dBi gain in "free space"
> but in normal installations its gain varies from about 0dbi for an Inverted
> Vee dipole to over 5dBi if placed at the right height over certain ground
> conditions. Years ago Hams used to use dipoles erected at their site as
> "references". A reference that can vary by almost 6dB isn't a good one.

In antenna gain terms, dBi refers to gain over an isotropic source (a source that radiates power equally in all directions. The nearest practical equivalent is an incandescent light bulb). The term dBi refers to a dipole *in free space.* When placed over ground, a dipole can exhibit gain. I just ran a NEC-4 model of an 80m dipole up 125 feet over average ground. The model showed the dipole has 7.98 dBi of gain. It is also quite technically correct to state the the dipole has 5.83 dBb of gain! Again, the key words are "free space."

73,
Ed Hare, W1RFI
ARRL Lab

>
> I am open to suggestions as to how to build and install an isotropic
> antenna??
>

Can't be done, John. The definition of an isotropic (or unipole)
antenna is "a hypothetical antenna radiating or receiving equally in all
directions". Unipoles do not exist physically. Simply a reference for
measurements.

An example would be a pulsating sphere for sound waves.

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

"The problem with doing nothing is not knowing when you're finished"
(Nelson DeMille)

Date: Thu, 2 Jul 1998 08:34:58 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [14205] Re: Dipole as a reference antenna
Message-ID: <Pine.BSI.3.96.980702082750.28209B-100000@usr02.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> John Evans - N0HJ wrote:
> >
> > I am open to suggestions as to how to build and install an isotropic
> > antenna??
> >
>

An isotropic antenna is pretty much a theoretical radiator that
is used to demonstrate certain aspects of electromagnetics. They are most
useful when determining array patterns.

For practical purposes, a vertical monopole can be considered
as an isotropic antenna of sorts as it radiates in all directions
horizontally. Also, certain patch antennas, such as those used for GPS
receivers, have hemispherical patterns, and can be considered as being
isotropic, but not in the exact definition. But then, there are very
few GPS satellites below ground level.

I would not recommend making a patch antenna for 160M. Takes a
lot of solder. :{)

```

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    / extinct stuff, anyhow? \
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```

Circuit Design for the RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

```

-----
Date: Thu, 02 Jul 1998 12:03:42 -0400
From: "Ed Hare, W1RFI" <ehare@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [14206] Mea Culpa: Feedback (was Re: Dipole as a reference antenna)
Message-ID: <359BAF5E.4674@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```

Ed Hare, W1RFI wrote:

```

> In antenna gain terms, dBi refers to gain over an isotropic source (a
> source that radiates power equally in all directions. The nearest
> practical equivalent is an incandescent light bulb). The term dBi
> refers to a dipole *in free space.*

```

My error. I meant to say, "The term dBd refers to a dipole in free space."

Sorry for the confusion.

73,
Ed

Date: Thu, 2 Jul 1998 11:04:30 -0500
From: applitech@mcg.net (Claton Cadmus)
To: "QRP-1" <qrp-1@Lehigh.EDU>, <jae@codenet.net>
Subject: [14207] Re: Dipole as a reference antenna
Message-ID: <00ef01bda5d3\$8ff013c0\$a10a5e2c@groucho>

John Evans - N0HJ <jae@codenet.net> asked:

>I am open to suggestions as to how to build and install an isotropic
>antenna??

The issue here is that the Dipole is a poor choice to erect as a reference antenna because it's gain is not reliable from installation to installation, with the possible exception of an Inverted Vee Dipole. I believe this "special configuration" of a dipole will be much more stable over varying ground conditions and have pretty good site to site reproducible gain, in the neighborhood of 0 dBi. Especially if the ends are 10 feet off the ground and the angle is close to 90 degrees. Also an elevated ground plane antenna is about .3 dBi at useful angles and should not vary much from average installation to installation. Would be nice if Ed would look into this on NEC-4. Ed?

The point has been made that the angle of the gain is just as important. This is quite correct, yet I have very rarely ever seen antenna gain figures expressed with an included angle. If I had my choice, all antenna gain measurements would be in dBi with an angle i.e. 4.4dbi@33 as an example. Couple this notation with a better practical reference antenna and you have a much better way to describe, rate and measure antenna performance.

73 de KA0GKC Claton Cadmus
cla@mcg.net
MNQRP #1
Minnesota QRP'ers we're looking for you!
Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Thu, 2 Jul 1998 09:10:42 -0700 (PDT)
From: "Allan G. Taylor" <ataylor@heracles.llnl.gov>
To: qrp-1@Lehigh.EDU
Subject: [14208] IC706/II QRP/CW performance
Message-ID: <199807021610.JAA04350@heracles.llnl.gov>

Does anyone out there have some specific experience operating the new Icom IC706/MkII at QRP or near-QRP power levels. Also the rig's cw QSK performance. I don't do 60 wpm, so performance up to a measly 40 will suffice for me. Signal stability. Sometimes Icom rigs have a slight chirp. Any comments? Has anyone experience in listening to its sig vs an Elecraft K2?

I have recently liquidated my portable rigs and am looking into my options for a rig capable of 5W and up to 100W (sorry for the QRO reference). Portable rather than mobile use intended, home station backup or 2nd receiver an alternate use.

73

Allan K7GT k7gt@qsl.net

Pleasanton CA (for no more than 11 more years, then back to 7-land!)

Date: Thu, 02 Jul 1998 11:24:03 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: radman@best.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [14209] Re: CB/QRP 4th of July Special
Message-ID: <359BB423.E4C19EDE@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for the heads-up, Conrad. Just got off the phone ordering one!

Funny thing: every time I tried to pull down the Tech America order form on the Net, my Netscape stalled and I had to reboot. This happened three times in a row - otherwise completely normal browser, et all performance on everything else. Anybody else have this problem? Netscape said there was a "hidden frame" problem.

The rig cost \$23.56 after Texas sales tax and shipping UPS Ground.

Get to work, steve!!

--

72/73, George

Amateur Radio W5YR, 52 years and counting!

QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403

AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

Conrad wrote:

>
> Tech_America is running a 4th of July Special on
> (forgive me, please) a 4 watt, hand-held GE 40 channel CB
> car radio complete with cig power adapter, Mag-Mount
> antenna, the radio and storage case for \$17.76 (get it?)
>
> (regularly \$69.95)
>
> URL: <http://www.techam.com/insiderflyer.asp>
>
> (secret code for ordering: XGAA2)
>
> Perhaps Steve Weber could figure out how to convert
> these things into something useful - like a 10 meter
> 4 watt QRP handie-talkie?
>
> It *is* QRP :),
>
> 72 - Conrad - NN6CW

Date: Thu, 02 Jul 1998 09:41:35 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: ataylor@heracles.llnl.gov
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [14210] Re: IC706/II QRP/CW performance
Message-ID: <359B55CF.D25183E7@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I used my 706 MK II during QRPTTF at 4 watts, mounted in my jeep with a High Sierra screwdriver antenna. Scored 81 Q's, for a bunch of points on CW.

It's a great rig for QRP. I also made some mobile DX contacts that

weekend. Can't say enough for the radio.

GL...Roger

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

"The problem with doing nothing is not knowing when you're finished"
(Nelson DeMille)

Date: Thu, 2 Jul 1998 11:26:25 -0600 (MDT)
From: marion@montana.com
To: qrp-l@Lehigh.EDU
Subject: [14211] Move 20mtr SST to 15mtr: component values
Message-ID: <199807021726.LAA23431@paw.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

DOZENS of requests on moving 20mtr SST to 15mtrs, so here is how I did it. If you make changes or improvements other than these, please let me know so I can use them as well.

LOWPASS FILTER

These are standard values from any handbook

L2, L3 = 11turns #26 on T37-6(yellow)

C34, C36 = 150pf, I used silver mica

C35 = 270pf " " "

XMIT MIXER

L1 = 18t #26 on T37-6(yellow)

C27 = 30pf, I used ceramic NPO

VXO

X6 = 25mhz crystals. I used two, one on top, one under board.

RFC3 = 23t #26 on T37-2(red). This was a critical value for proper oscillation and range. You may have to adjust a turn plus or minus, or compress or spread turns to adjust to desired tuning range.

PA

2.2uh molded choke from base of Q2 to ground.

As above changes were all that was necessary to put it on 21.050 to 21.070 with the MVAM108. Output was 1 watt, so I put in MRF237(ECG341) for two watts out. Its also very easy to move to 17mtrs by using same approach. Good luck and 72. Roy AB7CE

Date: Thu, 02 Jul 1998 09:38:21 +0000
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-l@Lehigh.EDU, azqrp@dancris.com
Subject: [14212] Gear For Sale
Message-ID: <Version.32.19980702092825.00f382d0@mail.dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have the following for sale:

OHR 400 (80,40,30,20 Meters) with DD-1 digital display, excellent condition, \$300.00 includes shipping to continental US.

OHR Classic 2040 Dual Bander, with DD-1, excellent condx, \$190.00 includes shipping to CONUS.

LDG QRP autotuner, built in case, \$100.00 including shipping to CONUS.

Bencher paddles, chrome w/black base, \$40.00 shipped to CONUS.

Norcal 40A with KC-1. KC-1 not working, so you will need to correct this. \$90.00 shipped CONUS.

Unassembled Idiom Press CMOS Super Keyer II kit, \$45.00 shipped CONUS.

If interested, please reply direct (not to list). First come, first served.
Bob Hightower KI7MN <http://www.dancris.com/~ki7mn>

Date: Thu, 02 Jul 1998 12:40:42 EDT
From: w4pj@w4bkx.ampr.org
To: qrp-l@Lehigh.EDU
Subject: [14213] Re: 00-LA-LA
Message-ID: <11762@w4bkx.ampr.org>

Alan says: "It is tuff getting European stations here on the west coast..."

Well, it's not easy working the Far East from down here in the "Toenail of America" either. Thanks to Deddy YB1XUR for the 5 and 3 report for my 4.9 Watt signal. (calibrated into a dummyload so the power reaching the antenna must be somewhat less... however minimal loss on 15m due to 9913 coax. "Poor-man's Hardline")

de W4PJ (Scott)
Ft. Lauderdale, FL

----- 73 -----

Date: Thu, 02 Jul 1998 12:52:54 EDT
From: w4pj@w4bkx.ampr.org
To: qrp-l@Lehigh.EDU
Subject: [14214] Re: 30 meter openings
Message-ID: <11765@w4bkx.ampr.org>

"Roundtable discussions" huh?
Well, so much for " G E N T L E M A N S " agreements.
Just listen on 10.0000000000 MHz. Try and copy a weak WWV thru the SSB.
Or the bottom of 28. MHz 28005, 28015, 28025 etc. every 10 Kc. AM CBers
with echoplex boxes and roger beeps. All the way up the band to 305 and
beyond.

That's what happens to unused spectrum. Someone claims it for their own
purposes. I guess we need to stop "listening" and start calling CQ.

IMNSHO
de W4PJ (Scott)
----- 73 -----

Date: Thu, 02 Jul 1998 13:15:04 -0400
From: Ed Tanton <n4xy@att.net>
To: Bill Schiller <schiller@cherokee.nsuok.edu>
Cc: QRP-L Reflector <qrp-l@Lehigh.EDU>
Subject: [14215] Re: SG2020&QRP++ on FD
Message-ID: <3.0.5.32.19980702131504.00b8b620@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks Bill! I think you have done us all a service by providing the first
significant comparison between the new and the old-performed side by
side... and THAT's something I have been wanting to hear about.

With the large difference in RCV current, there have obviously been
changes; and, while I was never certain, I didn't THINK my QRP+ ever
exhibited the overload that the '2020 does (it DID have some,
with-again-strong nearby signals. There are an Alpha 87 and 2 Alpha 77
3-holers all w/in 3-4 miles.)

Similarly, I cannot be sure about the chirp-BUT I never, ever, got a 'C

report using the QRP+, and have (a few [2 out of perhaps 75 QSOs]) with the '2020. You should arrange to listen to yourself (on a 2nd rcvr) while using the '2020 and you can get an idea of how really slight the chirp is. It is VERY slight... BUT again, ** ANY ** 'C is not acceptable, and I hope that SGC will fix it.

I hardly understand why there is an overload problem (except maybe their planned non-ham broadband usages causing detuning of the front-end design.) They certainly have plenty of crystal filter poles to work with (7-if I remember correctly.) As I said earlier, the majority of mine can be cleared up with judicious use of the RF Gain control, combined with the SCAF and PB Tuning... but that isn't in an FD environment, and more importantly, the QRP+ DIDN'T do it in the same environment. Once again, it is something I hope they fix-since I feel it ALSO ought to be fixable with some effort by SGC.

Overall, I really appreciate your efforts to provide THIS comparison. This kind of OBJECTIVE report, with comparisons and not simply opinions, is what it takes for us, and for SGC, to evaluate what they need to focus on-not that the preceding reports didn't say almost the same things... but they did not offer the quality of a comparison-supported evaluation yours did-and it really helps.

Nice job!!!!

73

Ed Tanton N4XY EMAIL: n4xy@att.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

INTERESTS:	QRP	BoatAnchors	Test Equipment	Photography
CW: 99.9%		Mercury Paddle # 0214		QRP to 150W: 95%

"Think you can, think you can't: either way you're right!" Henry Ford

Date: Thu, 02 Jul 1998 13:21:18 EDT
From: kh6b@juno.com (Dean W Manley)
To: qrp-l@Lehigh.EDU
Cc: kh6b@juno.com
Subject: [14216] SSB on 30M
Message-ID: <19980702.072154.5391.0.kh6b@juno.com>

Greetings from the Land of Aloha.

Re: recent postings on 30M (10.100-10.150 MHz).

It is not permitted to operate SSB in the USA on 30M.
However, IARU Regions 1 and 2 recommend that their
member societies limit modes on 30M to CW and data.

I believe in Region 3, the "suggested" use of narrow modes
breaks down. I held the call 3D2MC for several years in
Fiji. My license had NO SSB prohibitions for 30M. I did
not use SSB on that band when operating in Fiji.

I would be interesting to note if the VK's have a power
restriction on 30M.

73 and Aloha,

Dean KH6B Hilo HI BK29KP
ARRL Life, HI Chap. 194 QCWA
HI QRP 001

Date: Thu, 2 Jul 1998 10:35:58 -0700
From: dave_epps@juno.com
To: qrp-l@Lehigh.EDU
Subject: [14217] alinco dx-77t
Message-ID: <19980702.103605.14878.3.dave_epps@juno.com>

Did anyone use the alinco dx-77t at fd?
The product review in 6-98 QST looks good and it has a crystal filter not
ceramic like the earlier version.
dave ab5pc morro bay, ca.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 02 Jul 1998 13:40:13 -0400
From: Bill Cotter <bcotter@pop.uky.edu>
To: qrp-l@Lehigh.EDU
Subject: [14218] Need source for ferrites: Amidon, etc.
Message-ID: <3.0.3.32.19980702134013.00997440@pop.uky.edu>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

I would like to purchase a FT-43 ferrite core suitable for a 40-10m
vacation-dipole balun, something good for up to 100W. Perhaps a
1.375-1.625" diameter. Who/where are these available in small
quantities? Is there a miniture balun kit available anywhere?

Thanks,

73 Bill N4ALG

Bill Cotter, N4ALG	E-mail: bcotter@pop.uky.edu
173 Carolyn Lane	Home: (606) 887-5563,2402
Nicholasville, KY 40356-9340	Work: (606) 323-6474

Date: Thu, 02 Jul 1998 10:45:25 PDT
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [14219] Re: Questions...?
Message-ID: <19980702174525.10652.qmail@hotmail.com>
Content-Type: text/plain

John Bohnert (johnb@elmhurst.edu) wrote:

> 2. Dead bug construction might be the ticket for several of
> my anticipated projects. However, I only have two hands to
> hold the soldering iron, solder and the component "rigidly"
> in place to prevent a cold solder joint...

I've found two solutions to this problem. One is to melt a
blob of solder onto the groundplane, then position the
component and re-melt the solder. You only ever need two
hands simultaneously that way. Once you have one component
placed, you can crimp leads to hold mid-air connections
together.

The other way is to improvise a holding fixture. I use a pair of fine needlenose pliers with a rubber band on them, which I can then prop up as needed. As an added bonus, they make a dandy heatsink on sensitive components.

Yes, a chisel tip is good - note also that when tips wear down, a chisel point is the easiest to create when you refurbish the tip with a file (cheapskate tip #147). With enough elbow grease you can make the tip any size you like, handy for SMD components (cheapskate tip #148).

Laura Halliday VE7LDH "Laisse le vent tout emporter..."
Grid: CN88hk IOTA: NA036 - Foly/Viennet

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Thu, 2 Jul 1998 18:52:33 +0000
From: "Frank G3YCC" <g3ycc@g3ycc.prestel.co.uk>
To: qrp-1@Lehigh.EDU, gqrp-1@blacksheep.org
Subject: [14220] Yaesu VX1R
Message-ID: <E0yrnXY-0000D4-00@hen.scotland.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Does anyone know of a source of the 4 ring spkr mic plug for the Yaesu VX1R please?

--73--

Frank G3YCC G QRP 042
email: g3ycc@g3ycc.prestel.co.uk
QRP web Site: <http://www.homeusers.prestel.co.uk/g3ycc/>
Packet: G3YCC@GB7HUL

Date: Thu, 2 Jul 1998 11:16:55 -0700 (PDT)
From: "Allan G. Taylor" <ataylor@heracles.llnl.gov>
To: qrp-1@Lehigh.EDU
Subject: [14221] WTB: NorCal 40A, Rev. B
Message-ID: <199807021816.LAA04848@heracles.llnl.gov>

If someone on the reflector has a NorCal 40A, Rev. B out there that they could

part with, I may be interested. This one would mostly be used as a receiver, so having the KC-1 or other keyer in it is not necessary. Likewise, having a souped-up power train is not necessary. Having a 10-turn tuning pot is a plus, but I can put one in myself. Aesthetics are not particularly important, either.

I intend to use it as a dual-receive on 40 in conjunction with my OmniVI+.

As always, thanks for listening!

73

Allan K7GT k7gt@qsl.net

Pleasanton CA CM97

Date: Thu, 2 Jul 1998 19:28:05 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: kd7s@psnw.com
Cc: qrp-1@Lehigh.EDU
Subject: [14222] Re: Questions...?
Message-ID: <199807021828.TAA05667@chuck.dallas.sgi.com>

Bill et.al.,

I obtained from HomeDepot and I'm sure most hardware stores may have same a right angle clamp. It has two C-clamps. This thing used mostly by cabinet makers is my guess. They have a small one that costs under \$10. Works perfectly for me.

FYI

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Thu, 2 Jul 1998 13:32:45 -0600
From: "Evert R. Halbach" <cs-erh@nich-nsunet.nich.edu>
To: qrp-1@Lehigh.EDU
Subject: [14223] QRP+ question & FD Results
Message-ID: <16B99C04274@nich-nsunet.nich.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7BIT

Hello Group!

Anyone put the AGC "thump" modification on their QRP+???

After operating FD last weekend, I need to do something. My ears got popped continuously with the AGC "crashing" noises.....

Wondering if it actually works and if there is anything I need to know or watch out for before I attempt it???? Need to round up diodes first.....

My Field Day Results:

Call: WA5OJI 1E LA

Category: Sing op all band

Mode: CW

Rig: QRP+

Power: Battery

Output Power: 4.5w - 20 mtrs.

3.0w - 15 mtrs.

Ant: 3-el Quad 45'

Operating time total: approx. 16 hours

Band	Qs	Pts
20	121	1210
15	132	1320

total points 2530

Soap: Enjoyed FD more than last 2-3 contests. Seems like CW speeds were a lil more reasonable in this one. Might try operating from camp in swamp next year.....something different.

Have a good 4th weekend.....

73 de WA5OJI Evert

ARCI 9684

QRP-L 1562

Mosquito bites: NONE

Evert R. Halbach WA50JI
E-mail - cs-erh@nich-nsunet.nich.edu
Snail (work) - P.O. Box 2168 Thibodaux, La. 70310
Snail (home) - 117 Sawmill Rd. Thibodaux, La. 70301

Date: Thu, 2 Jul 1998 19:34:15 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: n7kt@earthlink.net
Cc: qrp-1@Lehigh.EDU
Subject: [14224] Re: Dipole as a reference antenna
Message-ID: <199807021834.TAA05696@chuck.dallas.sgi.com>

Roger et.al.,

I can think of several billion isotropic sources in the Universe
as we know it.

: -)

Chuck Adams K5FO Dallas, TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Thu, 2 Jul 1998 15:07:00 EDT
From: DENNISMO@aol.com
To: qrp-1@Lehigh.EDU
Subject: [14225] Another Happy Wilderness Sierra/KC2 Owner
Message-ID: <47958d3.359bda56@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi gang -

After months of belonging to this list I finally got on the air with my first QRP rig. I bought the little rig before FD but just got it 1st night. I've heard so much about the Sierra, especially since FD that I figured there must be something to all this praise. Well, I'm a believer now too.

I scrambled around and made up a cable for my "Big" paddle (no 2.5mm plug for my Whiterook unit) yet) to the Sierra and plugged in my 12v battery power supply and WHAM0 - I scored with the first CQ I answered. I had a nice QSO with Tom - KE6CSL in Saratoga, CA.(230 miles from Goleta, CA at 20 ft.

elevation) He gave me 569 with a "Solid Copy". Not bad for my very first QRP QSO with a QRP rig. I was running 2.5 watts to his 100watts on 40M. FB on the air! The receiver is great....!

A QRP'er at last! (:8^>)

God Bless all -

72's de Denny AD6EZ <><
PROMISE KEEPER

FISTS #4570 / QRP-L #1359 / ARCI #9637 / sCQs #44 / 10-X #69158 / Six Club #242

HAMing It Up Everyday In Goleta, CA

Grid: DM04BK / WEB PAGE: <http://members.aol.com/dennismo>

Date: Thu, 02 Jul 1998 14:18:45
From: Steven Weber <kd1jv@moose.ncia.net>
To: radman@best.com
Cc: qrp-l@Lehigh.EDU
Subject: [14226] Re: CB/QRP 4th of July Special
Message-ID: <3.0.3.16.19980702141845.2c8fad18@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Perhaps Steve Weber could figure out how to convert
>these things into something useful - like a 10 meter
>4 watt QRP handie-talkie?

Perhaps I could :-)

Actually, the easiest way to do it would be to remove the PLL in the CB and sub a more universal PLL like the MC14170 and program a small cpu like a PIC to run it. Here's way:

CB's tune 26.965 Mhz to 27.405 Mhz. Modern rigs use a 10.7 Mhz 1st IF and a second IF of 455 Khz. A 10.245 Mhz xtal is used to convert 10.7 to 455 and is also used as the reference for the PLL.

The VCO tunes 16.265 Mhz to 17.705 Mhz for Rx. For Tx, the VCO is shifted to 13.4825 Mhz to 13.7025 Mhz and then doubled for transmit.

Newer CB's use a PLL that can't be "opened up". Some of them have a few unused input combinations that will give a few extra channels, slightly above or below the CB band.

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Thu, 02 Jul 1998 15:48:40 -0400
From: "Ed Hare, W1RFI" <ehare@arrl.org>
To: qrp-1@Lehigh.EDU
Subject: [14227] Re: Dipole as a reference antenna
Message-ID: <359BE418.5080@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Claton Cadmus wrote:

> The issue here is that the Dipole is a poor choice to erect as a reference
> antenna because it's gain is not reliable from installation to installation,

In the strictest engineering sense, the term dBd is referenced to a dipole in free space. It is as much a mathematical construct as dBi. 0 dBi = -2.15 dBd and 0 dBd = 2.15 dBi. It would not be correct to say that a dipole 30 feet in the air has 0 dBd of gain, using a reference dipole that is a real dipole over ground.

> with the possible exception of an Inverted Vee Dipole. I believe this
> "special configuration" of a dipole will be much more stable over varying
> ground conditions and have pretty good site to site reproducible gain, in the
> neighborhood of 0 dBi.

Actually, I did some of that NEC-4 magic (I am using EZNEC Pro, a bit expensive, but EZNEC, using the NEC-2 engine, is available from W7EL, notes appended, is economical. NEC2 will work just as good as NEC4 for these sorts of calculations. Unfortunately, I became fairly proficient in the use of NEC4 when I did the ARRL RF Exposure book). NEC4 showed:

Broadside Gain in dBi of Inverted Vee 100-degree angle at various elevation angles of radiation:

Apex ht	15 degree	30 degree	90 degree	Max gain
30 ft	-2.54	2.64	6.76	6.76 @ 90 degrees
40	-1.35	3.50	6.09	6.09 @ 90
50	-0.11	4.50	4.63	5.72 @ 49
60	1.90	5.68	1.74	6.07 @ 38

70	3.93	6.94	-5.83	6.97 @ 32
80	5.85	7.91	-5.04	8.00 @ 27
90	7.08	7.92	-3.90	8.51 @ 24

Of course, this table doesn't really substitute for looking at the patterns. For comparison, the flat dipole showed a lower angle of radiation for a given "apex" height broadside to the antenna, and generally a bit more gain, again broadside to the antenna. But the invec showed less "nulls" in the direction of the wire, making it a more general omnidirectional radiator, especially at low heights.

> the angle is close to 90 degrees. Also an elevated ground plane antenna is
 > about .3 dBi at useful angles and should not vary much from average
 > installation to installation. Would be nice if Ed would look into this on
 > NEC-4. Ed?

Actually, the elevated gp is not really a good reference either. It shows the same significant changes in pattern vs height as any other antenna type. For a quick example, at .1 wavelength high, it showed 0.79 dBi at an angle of 21 detrees; at 10 wavelengths high, it was 6.62 dBi at 1.2 degrees, etc.

> The point has been made that the angle of the gain is just as important. This
 > is quite correct, yet I have very rarely ever seen antenna gain figures
 > expressed with an included angle. If I had my choice, all antenna gain
 > measurements would be in dBi with an angle i.e. 4.4dbi@33 as an example.
 > Couple this notation with a better practical reference antenna and you have a
 > much better way to describe, rate and measure antenna performance.

Actually, this is the crux of why the reference dipole for dBd is in free space. If a real antenna at the same height were used, it is possible that the dipole might have -20 dBi gain at a particular angle and the antenna being compared could be 1.0 dBi gain at the same angle. It would, however, be incorrect to state that the antenna had 21 dBd of gain at that angle -- with the reference being free space, the "over-ground" gain of the antenna at that angle would be -1.15 dBd.

I do agree that knowing the gain at a particular angle would be helpful, but the gain, and the angles of all the lobes in the elevation plane vary with height. All of the valid gain figures I have seen have been of the antenna in free space. In that case, the gain of a dipole is indeed 0 dBd. :-)

73,
 Ed

Date: Thu, 2 Jul 1998 15:11:17 -0500
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@Lehigh.EDU>
Subject: [14228] How low can we go? Less than a watt?
Message-ID: <199807022011.PAA24465@mail.dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi,

I took the day off today and had a chance to get on 20 meters with the OHR Classic running one watt.
I called CQ on 14.060 and was immediately called by K2KJ, Joe in NC. He was running a Argonaut II and a loop antenna. We had a nice QSO and then at the end, We both dropped power to 500 millawatts with no problem, then 250 millawatts, still no problem other than some QRM... then I dropped to 100 Millawatts,
Then I think 50 Millawatts and Joe still copied except for some problems with QRM. Amazing what you can do with such low power. I used a OHR WM-1 Wattmeter for my readings. The antenna I was using was a 280 ft rectangle loop up 45 ft fed with 100 ft of ladder line and hooked to a HB coaxial choke to a LDG AT-11 Tuner. I kept checking the meter scale because I couldn't believe he could still copy me.
Maybe I will do a weekend mW Beacon if there is enough interest.

73,

Kelly Ellison
WB0WQS
Aurora, Missouri

Date: Thu, 2 Jul 1998 13:47:14 -0700 (PDT)
From: camqrp@cyberg8t.com (Cam Hartford)
To: qrp-1@Lehigh.EDU
Subject: [14229] Summer Homebrew SPrint
Message-ID: <199807022047.NAA09414@trex.cyberg8t.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Fellow Contesters,

I realize your heads are still ringing from the endless pounding of CW on Field Day, but trust me, you can recover. Think of it like riding a bicycle, falling off, and swearing you'll never do it again. The best way to recover from the fall is to get right back on and ride some more.

With that relatively sloppy analogy aside, we can get to the meat here. The QRP ARCI Summer Homebrew Sprint is coming our way, Sunday, July 12. By that time you will have forgotten that you swore off keyer paddles forever, and you will actually be able to use some of that new-found code speed you garnered on FD weekend.

Meanwhile, send in your logs for the Milliwatt FD Trophy competition. Operators are standing by to take your entries.

CUL,

Cam, N6GA

QRP ARCI SUMMER HOMEBREW SPRINT Sponsored by QRP ARC International. 2000 - 2400 Z, July 12, 1998. CW only. Entries may be Single Band, All Band, High Band (20, 15, 10 or 6) or Low Band (160, 80 and 40). Work stations once per band. Exchange signal report, state/province/ country, and QRP ARCI number if member, or power output if non-member. 1.830 3.560 3.710 7.040 7.110 14.060 21.060 21.110 28.060 28.110 50.128. QSO points: 5 points / QSO with ARCI member, 2 points for non-members same continent, 4 points for non-members different continent. Bonus points awarded for using homebrew equipment, apply for each band on which homebrew equipment was used: +2000 points for HB transmitter; +3000 points for HB receiver; +5000 for HB transceiver. A piece of equipment is considered to be homebrew if you built it. Final score is total of QSO points (all bands) multiplied by total of states/provinces/countries (all bands) times power multiplier (> 5 W output, X1; <5 W output, X 7; <1 W output, X 10; < 250 MW output, X 15), plus bonus points. Include description of equipment and antennas used. Mail entries by August 12, 1998 to QRP ARCI Contest Mgr, Cam Hartford, N6GA, 1959 Bridgeport Ave., Claremont CA 91711. Or send by e-mail to CamQRP@cyberg8t.com.

Date: Thu, 2 Jul 1998 15:55:41 -0500
From: applitech@mcg.net (Claton Cadmus)
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [14230] Re: Dipole as a reference antenna
Message-ID: <015b01bda5fd\$84c42d40\$a10a5e2c@groucho>

Ed Hare, W1RFI <ehare@arrl.org> wrote:

>In the strictest engineering sense, the term dBd is referenced to a
>dipole in free space. It is as much a mathematical construct as dBi. 0
>dBi = -2.15 dBd and 0 dBd = 2.15 dBi. It would not be correct to say
>that a dipole 30 feet in the air has 0 dBd of gain, using a reference
>dipole that is a real dipole over ground.

That was my point. I have often read antenna comparisons based on an actual dipole at a ham's site and the results expressed in dBd, the last "d" being the actual erected dipole in the ham's yard and the assumption made that this is 0 dBd. It is not and in most cases is quite unknown. I have also received email from Hams that believe you can do this and use a dipole as a reference tool or implied it by asking how you but up an isotropic antenna.

I was surprised that neither the Inverted Vee or GP faired really any better as a reference antenna. I had thought that their more omni-directional patterns might yield a more useful reference antenna. Sure would be handy to be able to erect an actual antenna and know within a couple dB what it's gain is going to be. Of course with computer modeling software you can, with all the variations at different angles etc.

I do hope this discussion has helped others understand the difference between free-space and your antenna farm, dBi, dBd and the actual gain of your dipole slung between the trees.

73 de KA0GKC Claton Cadmus
cla@mcg.net
MNQRP #1

Minnesota QRP'ers we're looking for you!
Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Thu, 2 Jul 1998 14:13:05 +0100
From: talljazz@teleport.com (Dan Presley)
To: wb3aal@talon.net
Cc: qrp-l@Lehigh.EDU
Subject: [14231] Re: Inverteed V vs. Dipole
Message-ID: <v0153051bb1c0f05e76c8@[204.202.160.90]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ron-go for the "V".I'm using one for my Bumblebee stint (I'll be #90)at about 2000 ft elevation overlooking a valley. I have used them from similar locations with excellent results. I got this idea from Russ Carpenter, AA7QU of the Adventure Radio Society and is also extensively covered in Les Moxon's book from RSGB on antennas (can't recall the name right now!). For best results, put it as reasonably close to the slope as possible, and you'll get a lot of gain from reflections-actually, what happens is that you get a nice low 'takeoff angle' for your signal to get that 'long skip' instead of the typical 'cloud burner' scenario.If you want more info, check the ARS website. I don't have the URL handy, but it is linked from the Norcal and other qrp club pages. I also suggest sending an e-mail to Russ (can be done via the website) to talk about using terrain for gain.
Dan N7CQR

Date: Thu, 02 Jul 1998 14:48:57 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: Chuck Adams <adams@chuck.dallas.sgi.com>
Cc: qrp-l@Lehigh.EDU
Subject: [14232] Re: Dipole as a reference antenna
Message-ID: <359B9DD9.9EE8FDA9@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ah, yes..but can _you_ build one?

Not sure I want an answer to that, :-)

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ
"The problem with doing nothing is not knowing when you're finished"
(Nelson DeMille)

Date: Thu, 02 Jul 1998 17:07:30 -0500
From: Roy Jackson <rjackson@iname.com>
To: qrp-l@Lehigh.EDU
Subject: [14233] For sale
Message-ID: <3.0.5.32.19980702170730.007a7b70@mail.netnitco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

OHR 30 Meter Explorer II built and working	\$80 shipped CONUS
OHR 20 Meter Explorer II built and working aligned by OHR	\$80 shipped CONUS
OHR WM-1 wattmeter built and working	\$40 shipped CONUS
Ten Tec Century 21 analog w/manual cosmetically clean, works OK	\$125 shipped CONUS

Please contact me via direct e-mail if interested.

rjackson@iname.com or rjackson@netnitco.net

73, Roy N9RG

Roy Jackson, N9RG Michigan City, Indiana
QRP-L #447

Date: Thu, 2 Jul 1998 17:25:58 -0500
From: "Kelly Ellison" <kelman@dialnet.net>
To: <kelman@dialnet.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [14234] Re: How low can we go? Less than a watt?
Message-ID: <199807022225.RAA06122@mail.dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Sorry Joe,
I read my notes wrong.. Joes call sign is W2KJ .

--Kelly

> From: Kelly Ellison <kelman@dialnet.net>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: How low can we go? Less than a watt?
> Date: Thursday, July 02, 1998 3:11 PM
>
> Hi,
>
> I took the day off today and had a chance to get on 20 meters with the
> OHR Classic running one watt.
> I called CQ on 14.060 and was immediately called by K2KJ, Joe in NC.
He
> was running a Argonaut II and a loop antenna. We had a nice QSO and
then
> at the end, We both dropped power to 500 millawatts with no problem,
then
> 250 millawatts, still no problem other than some QRM... then I dropped
to
> 100 Millawatts,
> Then I think 50 Millawatts and Joe still copied except for some
problems
> with QRM. Amazing what you can do with such low power. I used a OHR
> WM-1 Wattmeter for my readings. The antenna I was using was a 280 ft
> rectangle loop up 45 ft fed with 100 ft of ladder line and hooked to a
HB
> coaxial choke to a
> LDG AT-11 Tuner. I kept checking the meter scale because I couldn't
> believe he could still copy me.
> Maybe I will do a weekend mW Beacon if there is enough interest.
>
> 73,
>
> Kelly Ellison
> WB0WQS
> Aurora, Missouri
>

Date: Thu, 2 Jul 1998 18:35:59 -0400
From: haf47@juno.com
To: crucis@sky.net
Cc: qrp-1@Lehigh.EDU
Subject: [14235] Re: Where get a PIXIE?
Message-ID: <19980702.183604.3422.2.haf47@juno.com>

Hi Mike,

The Knightlites QRP club offers a "Pixie" that features surface mount technology and comes with a crystal. If you connect to the NorCal Home page, you'll find the Knightlites under websites, under the club pages section. I don't have the specific address from where I am now, sorry.

Halted Specialties has a Pixie 2 Kit for \$9.95 without a crystal, but with all parts. A crystal on 80m is 87 cents extra. www.halted.com
1-800-4-HALTED

Embedded Research has a Tixie...a Pixie with a built in TiCK keyer...the board, keyer chip but no parts is \$12.50 I believe. The Tixie also has an offset feature built in that makes it a better radio in my opinion. Whatta bargain! They are also linked from the NorCal page.

Far Circuits offers a bare board for \$4 or so. Their link can also be found from the NorCal page.

By the time you get this I'm sure you'll have even more places to go to buy a Pixie. The first one I bought was used simply as a W1AW monitor, and works well for that purpose. The Tixie I now also have I use as an xcvr, and have made bunches of contacts with it. Hope you have as much fun with yours.

73, Howie

WA2AFD
haf47@juno.com

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End of QRP-L Digest 1140

